

Patent Abstracts of Japan

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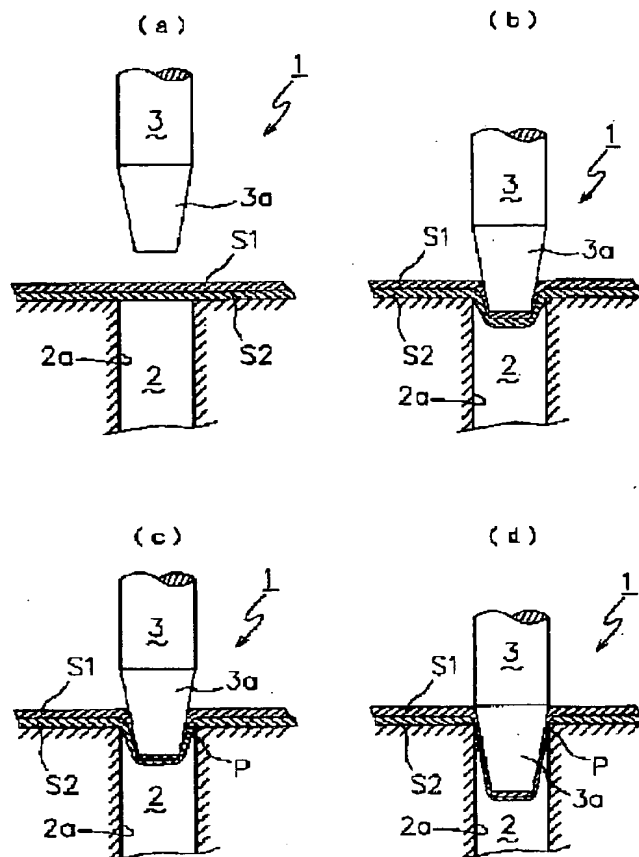
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APPLICANT : NITTO SEIKO CO LTD;

INVENTOR : MURAKADO HIROSHI;

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TITLE : METHOD FOR JOINING PLATE MATERIALS



ABSTRACT : PROBLEM TO BE SOLVED: To surely and firmly join plural sheets of plate materials.

SOLUTION: Two sheets of plate materials S₁, S₂ in a laminated state are placed on a die 2 having a hole into which a stem 3 having a tapered part 3a whose diameter becomes small toward the tip part can be entered, and the stem 3 is advanced to press each plate material S₁, S₂ by the tapered part 3a. Then, firstly the abutting plate material S₁ is punched by the stem 3 to form a cylindrical part P projecting in the shifting direction of the stem 3, and the stem 3 is further advanced to break the plate material S₂ of the die 2 side at near the peripheral edge part of a hole 2a of the die 2. In such a way, the laminated cylindrical part in each plate material S₁, S₂ is not formed and the cylindrical part P of the plate material is calked and then, two sheets of plate materials S₁, S₂ can surely and firmly be joined.

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